



# भारत का राजपत्र The Gazette of India

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सं० 13] नई दिल्ली, शनिवार, मार्च 27, 1982 (चैत्र 6, 1904)  
No. 13] NEW DELHI, SATURDAY, MARCH 27, 1982 (CHAITRA 6, 1904)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस  
(Notification and Notices issued by the Patent Office relating to Patents and Designs)

THE PATENT OFFICES  
PATENTS AND DESIGNS  
Calcutta, the 27th March 1982  
CORRIGENDUM

(1)

In the Gazette of India, Part III, Section 2 dated the 19th December 1981 under the heading "PATENTS SEALED" delete 147450.

(2)

In the Gazette of India, Part III, Section 2 dated the 19th December 1981 under the heading "PATENTS SEALED" delete 148436.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 214, ACHARYA JAGADISH BOSH ROAD, CALCUTTA-700 017

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

18th February 1982

188/Cal/82. Santrade Limited. Rock drill.

189/Cal/82. Unie Van Kunststestfabrieken B. V. Process for the removal of urea, ammonia and carbon dioxide from dilute aqueous solutions.

190/Cal/82. Faton Corporation. Precision forging method  
1—517GI/81

19th February 1982

191/Cal/82. O. S. R. Murthy. Improvements in or relating to torch lights of batteryless type.

192/Cal/82. OY Lohja AB. Thin film electroluminescence structure.

193/Cal/82. Ireco Chemicals. Emulsion explosives containing high concentrations of calcium nitrate.

194/Cal/82. BASF Aktiengesellschaft. Influencing plant growth.

195/Cal/82. Gosudarstvenny Sojuzny Institut PO Proektirovaniyu Metallurgicheskikh Zavodov and Vsesojuzny Nauchno-Issledovatel'skiy I Proektny Institut PO Ochistke Tekhnologicheskikh Gazov, Stochnykh Vod I Ispolcovaniji Vtorichnykh Energoresursov Predpriyati Chernoi Metallurgii "Vnrichermeter-Goochistka". Shaftfurnace conical wall cooling arrangement.

196/Cal/82. Donetsky Politekhnikhesky Institut and Donetsky Gosudarstvenny Proektiro-Konstruktorsky I Eksperimentalny Institut Kompleksnoi Mekhanizatsii Shakht. Centrifugal fan impeller.

197/Cal/82. Institut Khimii I Tekhnologii I Redkikh Elementov I Mineralnogo Syrva Kolskogo Filiala Akademii Nauk SSSR. Leather tanning agent and process for making same.

198/Cal/82 Siemens Aktiengesellschaft. Short-circuit protection for direct-current regulating circuitry.

(139)

## 20th February 1982

199/Cal/82. Yoest-Alpine Aktiengesellschaft. Cooling system for cooling the bits of a cutting machine.

200/Cal/82. The B. F. Goodrich Company. Chlorination of poly (vinyl chloride) in liquid chlorine and chlorinated poly (vinyl chloride) compositions.

## 22nd February 1982

201/Cal/82. ABEX Corporation. Railroad switch machine.

202/Cal/82. Cummins Engine Company, Inc. Solenoid operated fuel injector and control valve.

203/Cal/82. The Babcock & Wilcox Company. Sootblower feed and lance tube structure with improved turbulizer system.

204/Cal/82. The Babcock & Wilcox Company. Oscillating soot blower mechanism.

## 23rd February 1982

205/Cal/82. Hoechst Aktiengesellschaft. A process for the manufacture of a new water-soluble dyestuffs. [Divisional date February 14, 1979].

206/Cal/82. Institut Metallurgii Imeni 50-Letia SSSR Akademii Nauk Gruzinskoi SSR. Device for loading charge into an electrical melting furnace.

207/Cal/82. Hylsa, S.A. Method and apparatus for the reduction of metal ores.

208/Cal/82. Brown & Williamson Tobacco Corporation. Cigarette filter.

209/Cal/82. Monsanto Company. A method of preparing 2-substituted -4- phnyl -5- thiazolecarboxylates. [Divisional date May 14, 1979.]

210/Cal/82. J. MA. R. Concepcion. Method and apparatus for utilizing alcohol, as fuel for internal combustion engine.

## 24th February 1982

211/Cal/82. Shri N. Pal. Solar still-cum-water heater.

212/Cal/82. S. K. Ghosh. Manually operable device for generating electricity.

213/Cal/82. Gosudarstvenny Sojuzny Institut PO Proektirovaniyu Metallurgicheskikh Zavodov and Vsesojuzny Nauchno-Issledovatel'skiy I Proektny Institut PO Ochistke Tekhnologicheskikh Gazov, Stokhnykh Vod I Ispol'zovaniyu Vtorichnykh Energoresursov Predpriyatiy Vhernoi Metallurgii "Vnikiphermetnergoochistka". Shaft-furnace wall cooling arrangement.

214/Cal/82. Envirotech Corporation. Rotary drum filter. [Divisional date March 15, 1979.]

215/Cal/82. Metal Box Public Limited Company (formerly Metal Box Limited). Method for sealing a plastics material to a metal substrate. (February 24, 1981.)

APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-5

## 1st January 1982

1/Del/82. Jagdish Vaswani, "An electrical sequential controller adapted for use in a rail point actuation machine".

2/Del/82. R. K. G. Truset, "An insulated telephone cable".

3/Del/82. R. K. G. Trust, "A method of fixing a grommet to an insulated telephone cable".

4/Del/82. Taron Mohan, "A device for detecting counterfeit coins".

5/Del/82. Imperial Chemical Industries Plc. "Catalyst, catalyst support and oxychlorination process". (January 15, 1981 & July 14, 1981.)

6/Del/82. Pasala Dayaratnam, "Precast RCC Channel Unite for Bridge Culverts".

## 4th January 1982

7/Del/82. Pfizer Inc., "Bis-esters of methanedoil with acetanilides of ampicillin or amoxicillin and penicillanic acid 1, 1-dioxide".

8/Del/82. Egyesult Izzolampa Es Villamossagi Rt., "Lighting system and compact electric lighting unit".

9/Del/82. Asea Limited, "Recovery of energy from gas streams". (January 15, 1981, February 27, 1981 & August 20, 1981.)

10/Del/82. Jacobo Gadala Maria, "An improved device for spinning or twisting and winding yarn".

## 6th January 1982

11/Del/82. Societe De Conseils De Recherches & D' Applications Scientifiques, "Preparation process of Furo-(3, 4-c)-pyridine derivatives". (February 10, 1981.)

12/Del/82. Signode Corporation, "Portable gas-powered tool with linear motor".

13/Del/82. Signode Corporation, "Method and apparatus for forming and tensioning a strap loop about a package".

14/Del/82. Signode Corporation, "Combustion gas powered fastener driving tool".

## 7th January 1982

15/Del/82. Ghanshyam Das Agarwal, "A sterile surgical drape".

16/Del/82. Rotofil Industries, "A volumetric filler".

17/Del/82. S. S. Industries, "A bottle washing machine".

## 8th January 1982

18/Del/82. Bharat Heavy Electricals Limited, "Long stick out nozzle (Type-II)".

19/Del/82. Bharat Heavy Electricals Limited, "Long stick out welding nozzle for submerged arc welding (Type-I)".

## 11th January 1982

20/Del/82. Council of Scientific & Industrial Research, "An adjustable manually operated vehicle moving device".

21/Del/82. Council of Scientific & Industrial Research, "Process for the preparation of improved composite catalyst materials".

22/Del/82. Council of Scientific & Industrial Research, "A process for the synthesis of alkyl 5(6) carboxamido benzimidazole-2-carbamates".

23/Del/82. Council of Scientific & Industrial Research, "Process for the preparation of 17-B-(1-oxoheptyl) (Oxy) 19-norpregn-4-en-20-yn-3 one and esters thereof".

24/Del/82. Ambac Industries, Incorporated, "Fuel injection pump".

## 12th January 1982

25/Del/82. Egyesult Izzolampa Es Villamossagi Rt., "Ballasts for gas discharge lamps, and a lighting unit with a ballast and at least one high pressure gas discharge lamp".

## 13th January 1982

26/Del/82. Thorn Emi Plc (formerly known as Thorn Emi Limited), "Improvement in or relating to discharge lamps". (January 27, 1981 & (March 31, 1981),

13th January 1982

- 27/Del/82. Alsthom-Atlantique, "An installation for and a method of spreading clayey mud and reclaiming land".

14th January 1982

- 28/Del/82. Ashish Technical Services Pvt. Ltd., "A vending apparatus".
- 29/Del/82. Ashish Technical Services Pvt. Ltd., "A dispensing valve".
- 30/Del/82. Dr. R. C. Gupta, "A method of pelletization".
- 31/Del/82. Richard read davison, "Surface tension boiler".

15th January 1982

- 32/Del/82. Akticbolaget Bofors, "Training projectile".
- 33/Del/82. Rhone-Poulenc Sante., "Process for the preparation of 7-chloro-1, 2, 3-, 4-tetrahydroquinolin-4-one".
- 34/Del/82. Rhone-Poulenc sante., "Process for the preparation of quinolin-4-ones".
- 35/Del/82. Rhone-Poulenc sante., "Preparation of 4-hydroxyquinolines".
- 36/Del/82. Rhone-Poulenc Sante., "Process for the preparation of 4-amino-chloroquinolines".

APPLICATIONS FOR PATENTS FILED IN THE PATENT  
(OFFICE BRANCH, AT TODI ESTATES, III FLOOR,  
LOWER PAREL (WEST) BOMBAY-400 013

28th January 1982

- 19/Bom/1982. Spindelfabrik Sussen, Schurr, Stahlecker Grill GmbH. Device for interrupting the feed of a roving to drawing frames.
- 20/Bom/1928. Warm Stream. An Indian Partnership firm. A direct fired liquid heater cum agitator.

29th January 1982

- 21/Bom/1982. Ciba-Giegy of India Ltd. Novel process for the manufacture of diaminopyrimidines.
- 22/Bom/1982. The Raja Bahadur Motilal Poona Mills Ltd. Folding stand for use in a drafting machine.

1st February 1982

- 23/Bom/1982. Hemant Ratilal Vora. An improvement in or relating to the apparatus for stabilizing voltage.
- 24/Bom/1982. Anand Shripad Wagh. Controlled-diameter let-off motion for warping beam (or warping beam diameter control).
- 25/Bom/1982. Anand Shripad Wagh. Electronic control of warping beam diameter.
- 26/Bom/1982. Anand Shripad Wagh. Positive synchronous back beam creel.

2nd February 1982

- 27/Bom/1982. Ciba-Giegy of India Ltd. An improved process for the manufacture of diaminopyrimidines.

3rd February 1982

- 28/Bom/1982. Sudhir Bhalachandra Kaulgud. An instrument for recording telephone calls.
- 29/Bom/1982. Cummins Engine Company. Aftercooler assembly for internal combustion engine.

4th February 1982

- 30/Bom/1982. Thermax Private Limited. Process for caustic recovery from effluent streams.

- 31/Bom/1982. Thermax Private Limited. Incineration furnaces.

6th February 1982

- 32/Bom/1982. Anil Hari Kelkar and Prafullachandra Rajabhai Deo. An improved liquid resistance controller.
- 33/Bom/1982. Thermax Private Limited. Incineration furnace.
- 34/Bom/1982. T. V. Hole. Special stepper motor 3.6".
- 35/Bom/1982. T. V. Hole. Disk driver 5½".

9th February 1982

- 36/Bom/1982. Harish Vallabhdas Asari. Method for the measurement of rotary and/or peripheral speeds of rollers or rotating bodies.

10th February 1982

- 37/Bom/1982. Prakash Jayant Haribhakti. Electronic control circuit for protection of electrical equipment

12th February 1982

- 38/Bom/1982. The Bombay Textile Research Association. Openwidth batchwise solvent scouring machine.
- 39/Bom/1982. Voltas Limited. A heat pump fluid heater.

APPLICATIONS FOR PATENTS FILED AT THE PATENT  
OFFICE BRANCH, 61, WALLAJAH ROAD,  
MADRAS-600 002

8th February 1982

- 26/Mas/82. C. S. Pillai & C. S. Sivanandan. A Sofa Convertible into a Bed.

9th February 1982

- 27/Mas/82. Widia (India) Limited. A Drill.
- 28/Mas/82. Widia (India) Limited. A Spiral Fluted Milling Cutter.

11th February 1982

- 29/Mas/82. C. I. S. Rao. Improvements to powered sugar cane crusher for vendors of sugar-cane juice in a mobile unit to public in small quantities (in cup) for drink.

- 30/Mas/82. CORI Industries. A Novel Distribution System and Resin Trap for Ion Exchange Units.

12th February 1982

- 31/Mas/82. T. I. Cycles of India. An Adjustable Handle Bar for a Bicycle.

15th February 1982

- 32/Mas/82. U. V. Nayak. Coconut Tree Climbing Device.
- 33/Mas/82. U. V. Nayak. Improved Pair of Compasses.
- 34/Mas/82. M. Sachithandam. Safety filler caps for pressure stoves.

17th February 1982

- 35/Mas/82. V. Ravichandran. Groove Valve.

18th February 1982

- 36/Mas/82. C. Hariprasad & M. R. Narayanaswamy. A Method of Recovery of the mineral and chemical values from dilute solutions of ferrous sulphate derived in the manufacture of TiO<sub>2</sub> pigment.

- 37/Mas/82. C. Hariprasad & M. R. Narayanaswamy. A method of processing employing gypsum for the production of ammonium sulphate involving the intermediate preparation of magnesium sulphate.

- 38 Mas/82. C. Hariprasad & M. R. Narayanaswamy. A method of treating phospho-gypsum, an industrial

waste arising in the manufacture of phosphoric acid by the wet process and a like waste synthetic gypsum produced in industry for production of chemical substances therefrom.

39/Mas/82. C. Hariprasad & M. R. Narayanaswamy. A method of recovery of chemicals values from gypsum for ultimate production of either sulphur or sulphur dioxide.

40/Mas/82. Dr J. Thaikkattil, A. A. Thaikkattil, L. Thaikkattil and T. D. Anna. Improvements in or relating to pressure cookers.

19th February 1982

41/Mas/82. Sunshine Lamp Industries Limited. A non-pressure type multipurpose incandescent lamp.

42/Mas/82. N. Veeraraghavan & Smt. K. Veeraraghavan. A method of preparation of a bacilli cultivation medium and for the cultivation of bacilli therein; compositions of the said medium.

43/Mas/82. TT (private) Limited. An electric pressure cooker.

#### ALTERATION OF DATE

149728  
554/Cal/81 Ante dated 12th June 1978.

149729  
555/Cal/81 Ante dated 12th June 1978.

149741  
918/Cal/80 Ante dated 10th April 1978.

#### COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the application concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS 69 (F+O). 149716.  
Int. Cl.-H01h 1/06.

AN ELECTRIC SWITCH FOR DIRECT CURRENT CIRCUITS.

Applicant: BRAHES INDIA LIMITED, PADI, MADRAS-50, TAMIL NADU.

Inventors: (1) VADREVVU TIRUPATI VENKATA SRI RAMACHANDRA RAO, (2) RANGASAMY PARTHASARATHY RAM MOHAN.

Application No. 144/Mas/79 filed August 2, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

2 Claims.

An electric switch for Direct Current circuits adapted to make and break frequently or repeatedly characterized in that for the same cross-section area of the positive and negative contacts, the thickness of the positive contact in the direction of current is made greater than the thickness of the negative contact as herein described, permitting thereby more number of regrinds on contacts and extending the life of switch.

(Com.—6 pages; Drawgs.—1 sheet)

CLASS 24B.

149717.

Int. Cl.-B61h 5/00.

SELF-ENERGISING SPREADING DISC BRAKE FOR VEHICLES.

Applicant: LUCAS INDUSTRIES LTD., GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventors: (1) ANTHONY GEORGE PRICE, (2) ROBERT ALAN ANDERSON.

Application No. 178/Mas/79 filed September 19, 1979.

Convention date: 26-9-1978 (No. 38096/78 United Kingdom).

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Madras Branch.

9 Claims.

A self-energising spreading disc brake of the kind set forth in which a cranked lever pivotally mounted on one of the pressure plates by a first pivotal connection is pivotally coupled at one end to a brake-applying pull-rod by a second pivotal connection and at the other end acts on the other pressure plate so that angular movement of the lever about the first connection in response to movement of the pull-rod in a brake-applying direction urges the pressure plates angularly in opposite directions, the lever acting on the said other plate through an automatic slack adjuster which is operative automatically to determine a relative angular position between the pressure plates at which the braking clearances between the discs, the pressure plates, and the housing are maintained substantially at constant values.

(Com.—14 pages; Drawgs.—4 sheets)

CLASS 98E.

149718.

Int. Cl.-F22b 33/00, F22b 35 00, F22b 37/00.

CONTROL SYSTEM FOR VARIABLE PITCH AXIAL FAN FOR UTILITY BOILER.

Applicant: WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors: MORTON HARVEY BINSTOCK AND BERTRAM HENRY STERN.

Application No. 1641/Cal/77 filed November 23, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A control system for an axial-flow fan having variable-pitch blades disposed in use in an air flow system connected to the combustion chamber of a boiler, the system comprising: means which vary the pitch of said blades; means which detect a pressure-rise across said fan and for generating a signal in accordance with said pressure-rise; means which direct the air flow rate in said air flow system and generate a signal in accordance therewith; mixing means which mix said pressure-rise signal and said air flow rate signal to produce an

output signal; means which feeds signals to cause blade-pitch-increase or decrease to said blade-pitch varying means in normal operation to vary the air flow rate, irrespective of changes in static pressure rise, but in accordance with boiler load changes; means for giving an alarm in response to said output signals from said mixing means indicating pressure-rises exceeding given levels for corresponding flow rates to warn about a predetermined stage of the axial-flow fan before complete stall, and control means for blocking said blade-pitch increase-signal and substituting a blade-pitch decrease-signal in response to said output signals indicating a predetermined stage before a stall condition and for reducing the pitch of said blades to a position in which the pressure-rise and flow rate are reduced to a safe level with respect to a stall condition.

Comp. Specn 15 Pages.

Dig. 2 Sheets.

CLASS 98-I.

149719.

Int. Cl.-F24j 3/02.

# ENCLOSURE FOR SOLAR CELL PANEL AND SOLAR CELL PANEL INCLUDING THE ENCLOSURE.

*Applicant*: TIDELAND SIGNAL CORPORATION, POST OFFICE BOX 52430, HOUSTON, TEXAS 77052, UNITED STATES OF AMERICA.

*Inventors*: WILLIAM RICHARD KLEIN, CARL LEROY KOTILA AND IRA LESLIE KRAMS.

Application No. 299/Cal/78 filed March 20, 1978.

Convention date April 28, 1977/(17893/77) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

An enclosure for a solar cell panel, for housing a plurality of solar cells comprising, a top molded glass plate having a downwardly directed sidewall extending around the outer periphery, a bottom molded glass plate having a downwardly directed sidewall extending around the outer periphery, said bottom plate being adapted to be positioned beneath and within the sidewall of the top plate with sidewall of the top plate with the sidewall of the bottom plate closely adjacent the inside of the sidewall of the top plate for providing a downwardly directed interface between the top and bottom plates, said top and bottom plates bounding a compartment, a plurality of recesses molded in the bottom of the top plate or in the top of the bottom plate for receiving solar cells whereby the thickness of the compartment is minimized, said recesses being sized and shaped to conform to the size and shape of the solar cells, a passageway from each recess to an adjacent recess for accommodating electrical connections between solar cells, and electrical connections extending from the compartment through the bottom plate.

Comp. Specn 16 Pages.

Drg. 2 Sheets.

CLASS 48C.

149720.

Int. Cl.-H01b 17/34, 17/58.

# ELECTRICAL INSULATING BUSHINGS.

*Applicant*: WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

*Inventor*: LOREN BENNETT WAGENAAR.

Application No. 410/Cal/78 filed March 13, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

An electrical insulating bushing comprising an elongated, electrically insulating housing substantially filled or adapted to be filled with a liquid dielectric, an electrical tubular conductor disposed within the insulating housing and extending longitudinally therein, insulation disposed around a major

longitudinal portion of the conductor between opposite end portions thereof, a first longitudinal fluid flow channel formed directly between said insulation and the tubular conductor, a second longitudinal fluid flow channel formed within the tubular conductor directly adjacent the inner surface thereof, and a third longitudinal fluid flow channel formed between said insulating housing and said insulation around, as well as said end portions of, the tubular conductor, said first and second channels being in fluid-flow communication with said third channel at said opposite end portions of the conductor, characterised in that said tubular conductor contains an elongated member extending coaxially therewith and having an outer diameter smaller than the inner diameter of the tubular conductor such as to define said second channel and to provide the latter with a cross-sectional area resulting in a liquid flow rate through the second channel which is substantially equal to the rate of liquid flow through said first channel.

Comp. Specn. 25 Pages.

Dig. 3 Sheets.

CLASS 32F<sub>2</sub>b.

149721.

Int. Cl.-A61k 21/00.

# PROCESS FOR THE PREPARATION OF NOVEL ERYTHROMYCIN LEVULINATE.

*Applicant & Inventor*: THE REGISTRAR, JADAVPUR UNIVERSITY, DR. SADHAN KUMAR DUTTA, DEPT. OF PHARMACY AND SANAT KUMAR BASU, ALL OF JADAVPUR UNIVERSITY, CALCUTTA-700 032, WEST BENGAL, INDIA.

Application No. 642/Cal/78 filed June 12, 1978.

Complete Specification left June 11, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims. No drawings.

Process for preparation of novel erythromycin levulinate having improved palatability and better stability, which comprises dissolving levulinic acid in a solvent such as water and alcohol, treating the dissolved acid with erythromycin base or a solution containing the erythromycin base at a temperature of between 18 to 30°C recovering erythromycin levulinate thus prepared by conventional method.

Prov. Specn. 6 Pages.

Comp. Specn 5 Pages.

Dig. Nil.

CLASS 181.

149722.

Int. Cl.-F16j 15/00.

# DEVICE FOR SEALING THE GAP BETWEEN COMPONENT PARTS ROTATABLE RELATIVE TO EACH OTHER.

*Applicant*: VOEST-ALPINE AKTIENGESELLSCHAFT, (FORMERLY KNOWN AS VEREINIGTE OSTERREICHISCHE EISEN-UND STAHLWERKE-ALPINE MONTAN AKTIENGESELLSCHAFT), OF A-1011 VIENNA, FRIEDRICHSTRASSE 4, AUSTRIA.

*Inventors*: PETER KOGLER, OTTO SCHULTINA AND ALFRED ZITZ.

Application No. 769/Cal/78 filed July 12, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

A device for preventing penetration of dust from the outside inwardly into an annular gap between a cutter arm of a cutting machine and a rotatable cutting head carried on said arm, said cutting head having an interior space containing lubricating oil, said device comprising a first seal closing said interior space and located in said gap, a second seal located in said gap outwardly of said first seal, the grease flow resistance of said second seal in the outward direction being less than the grease flow resistance of said first seal in

an inward direction, and a pressurized grease supply line arranged within said cutter arm opening into said gap at a location between said first and second seals whereby during operation of the cutting head grease flows outwardly through said gap and prevents entry of dust into said gap.

Comp Specn 7 Pages

Drq 2 Sheets

CLASS 83A & 182A

149723

Int Cl-A231 1/00

PROCESS FOR THE PRODUCTION OF SOYA FREE OF FLATULENT SUGARS BY ELIMINATING THE FLATULENT SUGARS PRESENT IN SOYA

*Applicant* SOCIÉTÉ DES PRODUITS NESTLÉ S.A., CASE POSTALE 353—1800 VEVEY, SWITZERLAND.

*Inventors*, JAROSLAV DASEK, DAVID SHEPHERD, AND ROBERT DUSTAN WOOD

Application No 1304/Cal/78 filed December 7, 1978

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

8 Claims No drawings

A process for the production of soya free of flatulent sugars by eliminating the flatulent sugars present in soya which comprises preparing an aqueous soya suspension containing from 5 to 45% by weight of dry matter, inoculating the suspension thus prepared with at least one strain of *Saccharomyces (S) uvarum* which has reached the state of growth on a medium containing at least one sugar having at least one  $\alpha$ -D galactopyranosyl bond such as herein described and fermenting the suspension under anaerobic conditions for at least 8 hours at a temperature of from 15 to 50°C

Comp Specn 22 Pages

Digs Nil

CLASS 190A

149724

Int Cl-F02c 7/00

A ROTOR BLADE ASSEMBLY AND SPECIFICALLY TURBINE WHEEL ASSEMBLY

*Applicant* UNITED TECHNOLOGIES CORPORATION, OF 1, FINANCIAL PLAZA, HARTFORD, CONNECTICUT 06101, U.S.A.

*Inventor* SALVATORE ALFRED LEONARDI

Application No 1351/Cal/78 filed December 18, 1978

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

3 Claims

A rotor blade assembly and specifically turbine wheel assembly of the type having a plurality of rotor blades extending radially outward from a rotor disk, wherein the improvement comprises, a blade root having a plurality of teeth and a plurality of root grooves wherein each root groove is formed to a first radius of curvature in a radially inward region thereof and to a second radius of curvature in a radially outward region thereof, the first radius of curvature being larger than the second radius of curvature, and a rotor disk having a blade attachment slot at the periphery thereof including a plurality of teeth extending into engagement with corresponding grooves of said blade root and a plurality of disk grooves adapted to receive corresponding blade teeth wherein each disk groove is formed to a first radius of curvature in a radially outward region thereof and to a second radius of curvature in a radially inward region thereof, the first radius of curvature being larger than the second radius of curvature

Comp Specn 11 Pages

Drq 2 Sheets

CLASS 70C

149725

Int Cl-C23b 9/02

PROCESS FOR FORMING AN ANODIZED FILM OVER THE SURFACE OF ALUMINUM SUBSTRATES

*Applicant & Inventor* SITSUO TOMITA, OF NO 1-2, IUKAMIZO OHZARA, KOHDA CHO, NUKADA-GUN, AICHI-KEN, JAPAN

Application No 402/Cal/79 filed April 21, 1979

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

7 Claims No drawings

A method for forming an anodized film of aesthetic value over the surface of an aluminum or aluminum alloy substrate which comprises anodizing said aluminum or aluminum alloy substrate in an electrolyte solution containing 50-60% of sulfuric acid as well as an additive selected from the group consisting of oxalic acid and nickel sulfate, at a bath temperature of from 18° to 30°C and a current density of from 1 to 10 A/dm<sup>2</sup>

Comp Specn 12 Pages

Digs Nil

CLASS 32F11 & 35D2

149726

Int Cl-C07C 109/16, C07d 51/16

METHOD FOR PREPARING ACYLATED PENTADIENONE HYDRAZONE

*Applicant* AMERICAN CYANAMID COMPANY, AT WAYNE, NEW JERSEY UNITED STATES OF AMERICA.

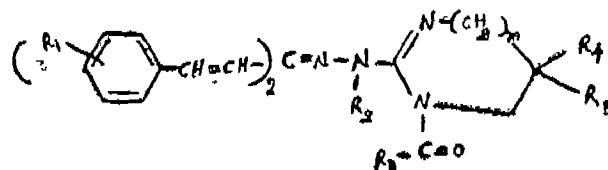
*Inventor* THOMAS WALTER DRABB, JR.

Application No. 426/Cal/79 filed April 27, 1979.

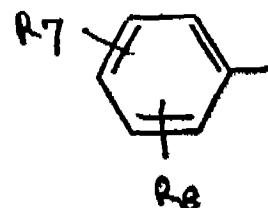
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

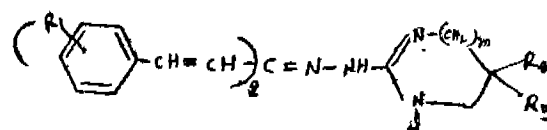
A process for the preparation of the compound of the general formula I.



wherein R1 is in the meta or para position and is selected from the group consisting of halogen, CF<sub>3</sub>-, CHF<sub>2</sub>-, CF<sub>2</sub>O- or CH<sub>2</sub>F<sub>3</sub>-Y-, R<sub>2</sub> is hydrogen or R<sub>6</sub>-Q-, R<sub>3</sub> and R<sub>6</sub> may be the same or different and are selected from C<sub>1</sub>-C<sub>17</sub> alkyl, C<sub>2</sub>-C<sub>17</sub> alkenyl or radical of formula A.



R<sub>4</sub> and R<sub>5</sub> are each hydrogen or methyl, R<sub>7</sub> and R<sub>8</sub> are hydrogen, halogen, C<sub>1</sub>-C<sub>4</sub> alkyl or C<sub>1</sub>-C<sub>4</sub> alkoxy, Y is oxy -ge or sulfur, m is an integer selected from 0, 1 or 2, n is an integer selected from 0 or 1, which comprises acylation of pentadienone hydrazone of the formula II.



where R<sub>1</sub>, R<sub>4</sub> and R<sub>5</sub> are as defined before with an acid halide of formula R<sub>3</sub>-CO-X where R<sub>3</sub> is as defined before and X is a halogen, the reaction being carried out with equimolar quantities of the reactants or with an excess of the acid halide.

Comp. Specn. 19 Pages

Drq. 9 Sheets.

CLASS 40F &amp; 47C.

149727.

Int. Cl.-B01j 7/00.

IMPROVED QUENCH RING AND DIP TUBE ASSEMBLY FOR A REACTOR VESSEL AND A REACTOR VESSEL.

*Applicant* : TEXACO DEVELOPMENT CORPORATION, OF 2000 WESTCHESTER AVENUE, WHITE PLAINS, NEW YORK 10650, UNITED STATES OF AMERICA.

*Inventors* : ALLEN MAURICE ROBIN AND AMERICO RICHARD CATENA.

Application No. 1030 Cal/79 filed October 4, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A quench ring and dip tube assembly for a reactor vessel having a refractory lined reactor chamber with a bottom outlet and a floor to support said lining, which assembly comprises an annular conduit for carrying cooling water therein and adapted for mounting against said bottom outlet and said floor, a dip tube for carrying hot gas and for directing molten slag from said outlet into a bath of quench water therebeneath, said dip tube, in use of the assembly, extending into the quench water to form a liquid seal, means for mounting said dip tube surrounding said annular conduit, and a plurality of individual passages for directing said cooling water in said annular conduit against the inside of said dip tube to prevent said slag from sticking thereto.

Comp. Specn. 9 Pages.

Drg. 2 Sheets.

CLASS : 32F<sub>2</sub>b & 55E<sub>1</sub>.

149728.

Int. Cl.-C07d 99/00, A61k 21/00.

PROCESS FOR THE PREPARATION OF NOVEL ERYTHROMYCIN MANDELATE.

*Applicant & Inventor* : THE REGISTRAR, JADAVPUR UNIVERSITY, 2, DR. SADHAN KUMAR DUTTA, DEPTT. OF PHARMACY AND SANAT KUMAR BASU, DEPTT. OF PHARMACY, ALL OF JADAVPUR UNIVERSITY, CALCUTTA-700 032, WEST BENGAL, INDIA.

Application No. 554/Cal/81 filed May 25, 1981.

Division of application No. 642/Cal/78 filed June 12, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims. No drawings.

Process for preparation of novel erythromycin mandelate having improved palatability and better stability which comprises dissolving mandelic acid in a solvent such as water and alcohol, treating the dissolved acid with erythromycin base or a solution containing the erythromycin base at a temperature of between 18 to 30°C, recovering erythromycin mandelate thus prepared by conventional method and when desired separating the d and l isomers by conventional methods.

Comp. Specn. 6 Pages.

drgs. Nil.

CLASS : 32F<sub>2</sub>b. & 55E<sub>1</sub>.

149729.

Int. Cl.-C07d 99/00, A61k 21/00.

PROCESS FOR THE PREPARATION OF NOVEL ERYTHROMYCIN LACTATE.

*Applicant & Inventor* : THE REGISTRAR, JADAVPUR UNIVERSITY, 2, DR. SADHAN KUMAR DUTTA, DEPTT. OF PHARMACY AND SANAT KUMAR BASU, DEPTT. OF PHARMACY, ALL OF JADAVPUR UNIVERSITY, CALCUTTA-700 032, WEST BENGAL, INDIA.

Application No. 555/Cal/81 filed May 25, 1981.

Division of Application No. 642/Cal/78 filed June 12, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims. No drawings.

Process for preparation of novel erythromycin lactate having improved palatability and better stability which comprises dissolving lactic acid in a solvent such as water alcohol and butyl acetate treating the dissolved acid with erythromycin base or a solution containing the erythromycin base at a temperature of between 18 to 30°C preferably 28 to 30°C, recovering erythromycin lactate thus prepared by conventional method and when desired separating the d and l isomers by conventional methods.

Comp. Specn. 6 Pages.

Digs. Nil.

CLASS : 187-E4+204

149730.

Int. Cl. : H04r 23/00.

IMPROVEMENTS IN OR RELATING TO DYNAMIC FORCE TRANSDUCER AND A WEIGHING SCALE SYSTEM INCORPORATING THE SAME.

*Applicant & Inventor* : VALLABHDAS PURUSHOTTAM ASAR, C/O SUNDERDAS & CO., BLOCK NO. B-2, ATLAS MILLS COMPOUND, REAY ROAD, BOMBAY-400 010, MAHARASHTRA, INDIA.

Application No. 270/Bom/1978 filed : SEP 8, 1978.

Complete after provisional left on Dec. 10, 1979.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch.

19 Claims.

A dynamic force a transducer adapted to generate an analogue output proportional to and a force equal and opposite in direction to an external force applied along its axis of operation which comprises a metallic coil suspended in its normal position within a magnetic field and adapted to be connected to a source of electric current, said coil being capable of movement upward and downward in an axial direction, an elongate member connected to said coil and adapted to move upward or downward with the movement of the coil, said elongate member being adapted to co-operate with means mounted above the coil for sensing its position said position sensing means being adapted to generate an electrical output along the axis of the coil proportional in magnitude and polarity to the displacement suffered by the coil from its normal position when said external force is applied along its axis.

Complete specification—18 pages. Drawing sheet—nil.

Provisional specification—10 pages Drawing sheets 4.

CLASS : 32F3C + 55E4

149731.

Int. Cl. C07d-13/00, 15/00.

IMPROVED PROCESS FOR THE SYNTHESIS OF 2, 3 : 4, 6-di-O-ISOPROPYLIDENE L-SORBOSE.

*Applicant* : AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, OF P.O. POLYTECHNIC, AHMEDABAD-380 015, GUJARAT, INDIA.

*Inventors* : (1) DR. TUSHAR KANTI DAS (2) DR. PREM PAT SING (3) DR. HARISH CHANDRA SRIVASTAVA.

Application No. 325/Bom/78 Filed November 6, 1978.

Complete specification after provisional left on Sept. 29, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Bombay Branch

5 Claims

An improved process for the synthesis of 2, 3 : 4, 6-di-O-isopropylidene L-sorbose, hereafter referred to as Das, comprising addition L-sorbose in one lot to a mixture of concentrated sulfuric acid and acetone at a temperature between

30-35°C and stirring the mixture until complete dissolution of L-sorbose; L-sorbose to acetone ratio being from 1 : 10 to 1 : 20 (w/v), and L-sorbose to sulfuric acid ratio being 1 : 1 to 1 : 2 (w/v), neutralising the reaction mixture so obtained with concentrated aqueous alkali (20 to 50% w/v) to obtain Das in aqueous layer and, if desired, recovering acetone by distillation and isolating DAS from aqueous layer with benzene.

Provisional Specn.—10 pages. Drawing nil.

Complete Specn.—11 Pages. Drawing nil

CLASS : 25A 149732.

Int. Cl. E04c 1/00.

A HOLLOW CONCRETE BLOCK FOR USE IN THE CONSTRUCTION OF LOAD BEARING WALL OR WALLS.

*Applicants & Inventors* : BALKRISHNA GANESH AKERKAR 166A, NARAYAN MANSION DR. AMBEDKAR ROAD DADAR BOMBAY-400 014 MAHARASHTRA, INDIA.

Application No. 10/Bom/19 79 Filed Jan 11, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 7 Claims

A hollow concrete block for use in the construction of load bearing wall or walls having a plurality of vertical holes and/or slots running through the upper and lower faces thereof for providing reinforcements and optionally one or more horizontal channels or grooves on the upper and lower faces thereof for engaging a strip, sheet or the like.

Comp. Specn. 11 Pages.

CLASS : 14B+C+76H. 149733.

Int. Cl. Holm-1/02.

A PILFER PROOF SEAL FOR THE CATHODE OF DRY CELL.

*Applicant* : LAKHANPAL NATIONAL LIMITED, MAKARPURA, G.I.D.C., BARODA-390010, STATE OF GUJARAT, INDIA.

*Inventor* : HAJIME OHNO.

Application No. 39/Bom/1979 Filed on Feb. 6, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

#### 5 Claims

A pilfer proof seal for the cathode of dry cell comprising of a disc of an electrically non-conducting material adapted to cover the cathode base of dry cell, the outer edge of the disc being adapted to be held irremovably between the cathode and the upturned bottom edge of the outer cover of the cell, the disc having fine perforations along a closed curve, said perforations being adapted to removeably tear the inner portion of the disc along the said closed curve exposing sufficient portion of the cathode for electrical contact.

Complete Specification 4 pages; Drawing 1 sheet.

CLASS : 32F3b+170D. 149734.

Int. Cl. C11c-1/00; C11d-13/00.

PROCESS FOR PREPARATION OF SYNTHETIC FATTY ACID SOAP FROM PARAFFINS.

*Applicant* : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE 165-166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

*Inventors* : (1) SHRINATH SHFESHGIRI KALBAG (2) ASHOK KUMAR BHANDARI (3) RANJIT KUMAR NIYOGI (4) PAUL ABRAHAM VATAKENCHERI.

Application No. 60/BOM/1979 Filed on Feb. 26, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 8 Claims

A process for the preparation of synthetic fatty acid soaps which comprises;

(a) oxidising with air, of long chain paraffins containing from 10 to 30 carbon atoms by a method such as herein described.

(b) saponifying the oxidation product with aqueous alkali to obtain a soap solution,

(c) removing the unreacted residual paraffins and non-carboxylic acid products from the soap solution by settling followed by solvent extraction; and

(d) destroying the undesirable colour and odoriferous materials in the soap solution by the use of bleaching agents as herein described.

Complete Specn 16 pages. Drawing Nil

CLASS : 55E2 + F4 149735.

Int. Cl. A61k 27/00.

"A PROCESS FOR THE MANUFACTURE OF A PHARMACEUTICAL PREPARATION".

*Applicants* : TUISI OIL MANUFACTURING COMPANY, OF THE GENERAL ASSURANCE SOCIETY BUILDING, 232 DR. D. N. ROAD, FORT, BOMBAY-400 001, MAHARASHTRA, INDIA.

*Inventor* : GOPALSWAMI SWAMINATHAN.

Application No. 114/BOM/79. Filed Apr. 24, 1979.

Complete after Provisional specification left July-10, 1979.

Appropriate office for opposition proceedings (Rule-4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 5 Claims

A process for the manufacture of a pharmaceutical preparation for the treatment of diseases herein before described which consists of the following steps :—

(a) Grinding Basil (Cimimum Album), Betal Leaves (Piper Betal), Ninbutre Leaves (Acadiracta Indico), Bengal Kins Leaves (Eagle Marmelos), Turmeric (Curcuma longa), Sandalwood (Santalum Album), Bishops weed Seed (Carum Opticu polychots and Fenugreek (Trigonella Falnum Grecum) with water to make paste.

(b) Heating Til (Gingly Seed) Oil with Trifala in the presence of water till it boils.

(c) Mixing the product from the step (a) with the product of the step (b) heating the mixture to boiling at atmospheric pressure and heating is continued till the water contained in the mixture is evaporated.

(d) The product of the step (c) is poured in an earthenware and allowed to remain therein for at least 48 hours.

Complete Specification 5 pages; Drawing Nil

Provisional Specn 3 pages; Drawing Nil.

CLASS : 179E. 149736.

Int. Cl. B67b 3/00

"AN IMPROVED PILFER PROOF CLOSURE FOR SEALING A CONTAINER SUCH AS BOTTLE AND A CONTAINER SUCH AS BOTTLE HAVING THE SAME".

*Applicant* : I ARSEN & TOUBRO LIMITED, OF I & T HOUSE, BALIARD ESTATE, BOMBAY-400 038 MAHARASHTRA, INDIA.



*Inventor* HARKANT KRISHNASHANKER UPADH-  
YAYA

Application No 286/BOM/79 Filed October 16, 1979

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Bombay Branch

#### 6 Claims

An improved pilfer-proof closure for sealing a container such as bottle, comprising a base, a skirt depending the base and defining an upper portion adapted to serve as a reclosure for the container, an intermediate portion separated from the upper portion by at least one circumferentially weakened line and having an internal diameter larger than the internal diameter of the upper portion, a lower portion separated from the intermediate portion by circumferentially weakened line and having an internal diameter equal to the internal diameter of the intermediate portion and being provided with at least one transverse vertical score line extending across its width and a bridge connecting the intermediate portion and the lower portion so as to hold the intermediate portion and the lower portion together while the intermediate portion is unscrewed

Provisional Specification 11 pages, Drawing 8 sheets

Complete Specification 13 pages, Drawing nil

CLASS 130D 149737

Int Cl-022b 1/12, 21/00

#### SELF-ADJUSTING POWDER DISTRIBUTOR.

*Applicant* ALUMINIUMTARI TERVEZO ES KITATO  
INTÉZEC, OF BUDAPEST, HUNGARY, AND ALMASFU-  
ZITOI TIMFOLDGYAR, OF ALMASFUZITO, HUNGARY.

*Inventors* ISTVAN KRAXNER, ANTAL SEBOX,  
JANOS STEINER AND JOZSEFTOTH

Application No 576/Cal/78 filed May 29, 1978

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta

#### 7 Claims

A self-adjusting powder distributor, particularly for alumina calcination apparatus, comprising a closed casing with an adjustable inlet and a plurality of adjustable outlets having adjustable discharge edges or plates, a powder fluidizing bottom and dischargers connected to the outlets of the casing

Comp Specn 13 pages Drg 3 Sheets

CLASS 190C 149738.

Int Cl-F01d 17/00

#### HYDRAULIC TURBINE CONTROL DEVICE

*Applicant* PROIZVODSTVENNOE OBIEDINENIE TUR-  
BOSTROENIA "LENINGRADSKY METALLICHESKY  
ZAVOD"—USSR Leningrad, SVERDLOVSKAYA NAB-  
EREZHNYAYA, 18

*Inventors* ALEXANDR IVANOVICH CHEREPOVITSYN  
AND VALENTINA VLADIMIROVNA CHESNOKOVA

Application No 712/Cal/78 filed June 27, 1978

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta

#### 1 Claim

A hydraulic turbine control device comprising servomotors of the hydraulic turbine runner and the distributor interconnected by means of a mechanical transmission and having feedback mechanisms connecting each of the said servomotors and their respective main pilot valves, said feedback mechanisms provided with pulling members having weights and a stroke limiter for these weights, an electric circuit for stopping the hydraulic turbine characterized by that an on-off switch is provided hooked into said electric circuit, and double-arm pivoted levers are mounted on the stroke limiter for the 2—51761/81

weights with an end of one arm of each of the double-arm pivoted levers being in mechanical contact with the on-off switch and an end of the other arm lying across the path of the weight moving under gravity when the respective pulling member is broken

Comp Specn 11 Pages

Drg 1 Sheet.

CLASS 70A

149739.

Int Cl-B01k 3/02

#### PREPARATION OF IMPROVED ELECTROCHROMIC DEVICES

*Applicant* AMERICAN CYANAMID COMPANY, OF  
THE TOWNSHIP OF WAYNE, STATE OF NEW JERSEY,  
UNITED STATES OF AMERICA

*Inventor* ROBERT DOMENICO GIGLIA

Application No 953/Cal/78 filed August 30 1978

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta

#### 8 Claims. No drawings

In an electrochromic device which comprises a layer of persistent electrochromic material on an electrode surface in electrical contact with a polymeric electrolyte, a counter-electrode also electrically contacting said polymeric electrolyte and electrical means for selectively applying electrical fields of opposite polarity across said electrodes, the improvement wherein said polymeric electrolyte is incorporated into the device by the steps of (1) dissolving the polymer in a solvent, (2) depositing the resultant solution upon the electrochromic material, and (3) evaporating the solvent from the coating

Comp Specn 11 Pages

Drgs Nil

Class 116D

149740

Int Cl-B65g 11/00

#### SKIRT BOARD INSTALLATION FOR CONVEYORS

*Applicant* MARTIN ENGINEERING COMPANY, OF  
U.S. ROUTE 34, NEPONSSET, ILLINOIS 61345, UNITED  
STATES OF AMERICA

*Inventor* RICHARD PATRICK STAHURA

Application No 146/Cal/79 filed February 16, 1979

Convention date October 24, 1978/(314,130/78)  
CANADA

Appropriate office for opposition Proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Calcutta

#### 4 Claims

A skirtboard installation for a conveyor having a travelling belt including at least one mounting plate, a plurality of skirtboard sections disposed above said belt connectible to said mounting plate and adapted to contact said belt, a slide and guideway interlocking connection between said mounting plate and said skirtboard sections allowing generally vertical movement of said skirtboard sections with respect to said mounting plate, friction means disposed in said slide and guideway connection between said mounting plate and said skirtboard section adapted to permit sliding of said skirtboard section toward said conveyor but to retard movement of said skirtboard section away from said belt

Comp Specn 12 Pages

Drg 2 Sheets.

CLASS 321a & 55D

149741

Int Cl C07c 143/00

#### A PROCESS FOR PREPARING 4-ALKYLTHIO-2-TRIFLUOROMETHYLALKANESULFONANILIDES

*Applicant* MINNESOTA MINING AND MANUFACTURING  
COMPANY, OF 3M CENTER, SAINT PAUL,  
MINNESOTA 55101, UNITED STATES OF AMERICA.

Inventors : SHARON LINDA RUFFING, WALLACE  
EMIL BURG AND EZZAT AYAD MIKHAIL.

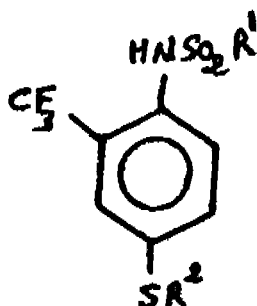
Application No. 918/Cal/80 filed August 11, 1980.

Division of Application No. 389/Cal/78 filed April 10, 1978.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 11 Claims

A process for preparing a compound of the formula shown in the accompanying drawings.



wherein  $\text{R}^1$  and  $\text{R}^2$  are independently alkyl groups containing from 1 to 4 carbon atoms provided that  $\text{R}^1$  and  $\text{R}^2$  are not both methyl, which comprises the steps of

(1) reacting 2-aminobenzotrifluoride with hydrothio-cyanic acid or a salt thereof to form 4-thiocyano-2-trifluoromethylaniline,

(2) reacting that product with sodium sulfide and the appropriate alkyl halide,  $\text{R}_2\text{X}$ , wherein  $\text{X}$  is chlorine or bromine and  $\text{R}_2$  has the same meanings as defined above to form the corresponding 4-alkylthio-2-trifluoromethylaniline, and

(3) reacting that product with an excess of the alkane-sulfonyl chloride to form the N-alkylsulfonyl-4-alkylthio-2-trifluoromethylalkanesulfon-anilide followed by partial hydrolysis with base to form the 4-alkylthio-2-trifluoromethylalkanesulfon-anilide.

Comp. Specn. 15 pages.

Drg. 1 Sheet.

#### OPPOSITION PROCEEDINGS

An Opposition has been entered by Research Designs & Standards Organisation to the grant of a Patent on application No. 148978 made by B T R Limited.

#### PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undernoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy :—

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137571 137572 137573 137576 137577 137578 137580 137581  
137582 137583 137584 137585 137586 137587 137588 137590  
137591 137593 137594 137595 137597 137598 137599 137600  
137601 137602 137604 137607 137608 137609 137611 137614  
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#### PATENTS SEALED

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148896 148899 148901 148902 148909 148913 148915 148916  
148919 148925 148926

#### Mechanical List No. 3

#### COMMERCIAL WORKING OF PATENTED INVENTIONS

The following Patents in the field of Mechanical Engineering Industry are not being commercially worked in India as admitted by the Patentees in the statements filed by them under section 146(2) of The Patents Act, 1970, in respect of Calendar year 1980, generally on account of want of the requests for the Licences to work the Patented inventions.

Persons who are interested to work the said Patents commercially may contact the Patentees for the grant of Licence for the purpose.

Sl. No.	Patent No.	Date of Patent	Name and address of the Patentees	Title of the inventions
1	2	3	4	5
1.	137015	13-10-1972	JOHNSON & JOHNSON, 501 George Street, New Brunswick, New Jersey, U.S.A.	A normally tacky and pressure sensitive adhesive-tape.
2.	137020	31-01-1973	KABUSHIKI KAISHA YAMADA JUKI, 32, 4-ban Kumano-cho, Nishino-miya city, 47090, Prefecture, Japan.	Percussion apparatus.
3.	137035	21-09-1972	UNION CARBIDE CORPORATION, 270 Park Avenue, New York, State of New York 10017, U.S.A.	Apparatus for casting metal objects.
4.	137087	22-09-1972	STADT WIEN, Tathaus, Vienna 1, Austria.	Ventilating system for underground railways.
5.	137088	03-10-1972	DRESSER INDUSTRIES INC., Republic National Bank Building, P. O. Box 18, Dallas, Texas-75221, U.S.A.	Condition responsive gauge instrument.

1	2	3	4	5
6.	137093	24-01-1973	ERIK SOLBECK, 342, Vedback Strandvej, 2950, Yedback, Denmark.	A machine for producing non-woven nettings.
7.	137106	23-03-1973	CATERPILLAR TRACTOR CO., 100 N.E. Adams Street, Peoria, Illinois, 61602, U.S.A.	Flexible seal.
8.	137112	24-08-1973	RUTI MACHINERY WORKS LTD., 8630 Ruti, Zurich, Switzerland.	Temple roller.
9.	137127	15-02-1973	GEORGE UTZ AG., Auhof 278, 5620, Bremgarten Switzerland.	Pallets.
10.	137155	09-10-1972	FOSTER WHEELER CORPORATION, 110, South Orange Avenue, Livingston, State of New Jersey, U.S.A.	Erosion resistant sensing device.
11.	137156	13-10-1972	VEB WIRKMASCHINENBAU KARL-MARK-STADT, 90 Karl-Marx-Stadt Annaberger-str 73, German Democratic Republic.	A crochet galloon machine.
12.	137168	27-01-1973	JAWA NARODNI PODNIK, Tyne nad, Sazavou, Czechoslovakia.	Vehicle wheel.
13.	137174	30-09-1972	MCNEIL CORPORATION, 96 East Crosier Street, Akron, Ohio, 44311, U.S.A.	A method and press for shaping and curing tyres.
14.	137228	12-01-1973	UOP INC., Ten UOP Plaza-Algonquin 9 Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Apparatus for simultaneously forming external helical fins and ridges on tube.
15.	137255	28-11-1972	NORTON CO., 1 New Bond Street, Worcester, State of Massachusetts, U.S.A.	An abrasive wheel.
16.	137263	05-01-1973	CATERPILLAR TRACTOR CO., 100 N.E. Adams Street, Illinois, 61602, U.S.A.	Gear drive mechanism for excavators.
17.	137264	02-01-1973	GIRLING LTD., King's Road, Tyseley Birmingham 11, England.	Automatic adjuster for shoe-drum brakes.
18.	137294	13-12-1972	KNORR BREMSE GmbH, 80 Moosacher Strass, 8 Munchen 13, F. R. GERMANY.	Control valve for pressure air brake installation in railway vehicles.
19.	137310	09-01-1973	GIRLING LTD., King's Road, Tyseley, England.	Tandem master cylinder for hydraulic braking systems.
20.	137361	11-01-1973	ABEX CORPORATION, 530 Fifth Avenue, New York, New York, U.S.A.	Manufacture of friction elements for vehicle brake linings and the like.
21.	137426	09-11-1972	BATTELLE DEVELOPMENT CORPORATION, 505 King Avenue, Columbus, Ohio, 43201, U.S.A.	A method of making reinforced concrete structure or body and structures so made.
22.	137470	09-10-1972	FOSTER WHEELER CORPORATION, 110 South Orange Avenue, Livingston, State of New Jersey, U.S.A.	Cooling tube ferrule.
23.	137479	16-10-1973	BRIGHTON CORPORATION LTD., Tokyo Central No. 534, 8-chome, Akasaka, Ninatoku, Tokyo, Japan.	Vacuum retaining jar.
24.	137488	05-01-1973	CATERPILLAR TRACTOR CO., 100 N.E. Adams Street, Illinois 61602, U.S.A.	Hydraulic circuitry for an excavator.
25.	137489	05-01-1973	Do.	Swing transmission for excavators.
26.	137544	11-04-1973	SOCIETE NATIONALE DES POU-DRES ET EXPLOSIFS, 12 Quai Henri IV, 75181 Paris 04, France.	Tool holders.
27.	137554	14-09-1973	PALITEX PROJECT CO., GmbH, Weeserweg 8, 415 Krefeld, West Germany.	Double twisting spindle with a twisting arm swivellable in a vertical direction.
28.	137642	24-03-1973	THE GOODYEAR TIRE & RUBBER CO., 1144 East Market Street, Akron, Ohio, U.S.A.	Improvements in and relating to coupling members.
29.	137663	29-12-1973	USS ENGINEERS AND CONSULTANTS INC., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Curved roll rack for a continuous casting apparatus.
30.	137689	04-09-1973	ORMAT TURBINES (1965) LTD., New Industrial Zone, Yarne, Israel.	An injector for furnishing liquid at a low pressure to a vessel at a high pressure.

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31.	137708	12-07-1973	NORTHEY ROTARY COMPRESSORS LTD., Aider Road, Parkstone, Poole, Dorset, England.	Improvements in or relating to rotary engines or pumps.
32.	137720	23-05-1973	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	Thrust bearing assembly.
33.	137753	16-10-1973	PALITEX PROJECT COMPANY GmbH, Weeserweg 8, 514 Krefeld, West Germany.	Double twisting spindle.
34.	137762	13-09-1973	ORMAT TURBINES (1965) LTD., New Industrial Zone, Israel.	Heat Transfer apparatus.
35.	137829	24-04-1973	ETHICON INC., Somerville, New Jersey, U.S.A.	Surgical needle suture combination.
36.	137844	03-01-1973	SULZER BROTHERS LTD., Winterthur, Switzerland.	Steam generating apparatus.
37.	137855	05-01-1973	CATERPILLAR TRACTOR CO., 100 N. E. Adams Street, Illinois, 61602, U.S.A.	A mounting assembly for slidably supporting a track idler.
38.	137878	15-06-1974	FEDERAL-MOGUL CORPORATION, 20555 Northwestern Highway, Southfield, Michigan 48075, U.S.A.	A bearing assembly.
39.	137891	29-12-1972	THE FIBERWOVEN CORPORATION, East Main Street, Elkin, North Carolina, U.S.A.	Needled textile fabric and process for producing the same.
40.	137902	19-01-1973	WHITE WELDING AND MFG., INC., 7640, 60th Avenue, Kenosha, State of Wisconsin 53141, U.S.A.	Rotary bar guide assembly for rotary bar door locking mechanism.
41.	137939	25-01-1974	HYDERABAD ASBESTOS CEMENT PRODUCTS LTD., 1/1, R. N. Mukherjee Road, Calcutta-700001, India.	Asbestos cement sheets.
42.	137945	17-02-1973	POLLARD V. BELT (GUERNSEY) LTD., 7 New Street, St. Peter Port in the Island of Guernsey.	Drive belting and endless drive belts made therefrom.
43.	137950	31-01-1973	WESTINGHOUSE ELECTRIC CORPORATION, Pittsburgh, Pennsylvania, U.S.A.	A system for measuring the flow velocity rate of a liquid.
44.	137955	04-04-1973	CATERPILLAR TRACTOR CO., 100 N.E. Adams Street, Illinois, 61602, U.S.A.	Underspeed valve hydrostatic control system.
45.	137969	14-06-1973	PALITEX PROJECT COMPANY GmbH, Weeserweg 8, 4150 Krefeld, West Germany.	A double twisting machine having a hand knottet.
46.	137983	18-07-1973	SEAMAN CORPORATION, R-D-1, Millersburgh, Ohio, U.S.A.	Rigid frame tensioned fabric structure.
47.	137996	28-03-1973	BURROUGHS CORPORATION, Second Avenue at Burroughs, Detroit, Michigan, 48232, U.S.A.	Device for singulating or feeding documents one at a time from a stack.
48.	138006	20-02-1973	UOP INC., Ten UOP Plaza-Algonquin & Mt. Prospect Roads, Illinois, U.S.A.	Internally ridged heat transfer tube and method of designing for optimum.
49.	138044	12-01-1973	Do.	Method of forming fins on tubes of difficult to roll metal.
50.	138072	16-10-1973	PALITEX PROJECT-COMPANY GmbH, Weeserweg 8, 415, Krefeld, West Germany.	Device and method for use in positioning of a spindle rotor of a spinning or twisting spindle, especially a double twist.
51.	138113	04-07-1973	EMHART INDUSTRIES INC., 426 Colt Highway, Farmington, Connecticut, U.S.A.	Method and means for automatically regulating weight of articles in glass ware forming machine.
52.	138115	03-11-1973	ISHIKAWAJIMA-HARIMA JUKO-GYO, KABUSHIKI KAISHA, 2-1, chome ote-Mahi Machi, Chiyodaku, Tokyo, Japan.	Process and apparatus for making cement clinker by burning raw materials.
53.	138151	18-04-1973	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION, P. O. Polytechnic, Ahmedabad-380015, India.	Improved unit for recovery of waste heat from hot air dryers.
54.	138195	11-01-1974	WESTINGHOUSE AIR BRAKE COMPANY, Pittsburgh, Pennsylvania, U.S.A.	Blending valve device for combining fluid pressure and dynamic brakes.

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55.	138186	24-01-1974	WESTINGHOUSE BRAKE AND SIGNAL COMPANY LTD., John Street, London WC1N 2ES, England.	Empty/load control valve apparatus.
56.	138214	22-09-1973	SPERRY RAND CORPORATION, 1401, Crooks and Maple Road, Troy, State of Michigan, 48084, U.S.A.	Improvements in filters.
57.	138221	11-01-1974	WESTINGHOUSE BRAKE AND SIGNAL COMPANY LTD., 3 John Street, London WC1N 2ES, England.	Brakes cylinder release valve apparatus.
58.	138249	10-07-1973	FERRANTI LTD., Hollinwood, Lancashire, England.	An inertial guidance system for aircraft.
59.	138289	13-06-1973	TOKYO-JUKI KOGYO KABUSHIKI KAISHA, No. 8-2-2, Kokuryomachi, chofu-shi, Tokyo, Japan.	Improvements in or relating to a typing machine for selectively typing on a sheet large number of characters.
60.	138321	16-08-1974	GIRLING LTD., King's Road, Tyseley, England.	Fluid pressure brake system.
61.	138353	05-07-1973	AMPLIFORM PTY. LTD., 95 Collins Street, Melbourne, State of Victoria, Commonwealth of Australia.	Method and apparatus for slotting strip material.
62.	138370	25-05-1974	FERRANTI LTD., Hollinwood, Lancashire, England.	Apparatus for checking and connecting the heading alignment of an inertial platform by a vehicle.
63.	138377	03-03-1973	SOCIETE NATIONALE DES POU- DRES ET EXPLOSIFS, 12 Quai Henri IV 75181 Paris Cedex 04, France.	Solid fuel rocket engine.
64.	138457	23-06-1973	SPERRY RAND CORPORATION, 1401, Crooks and Maple Roads, Troy State of Michigan 48084, U.S.A.	Improvements in pumps & motors.
65.	138550	17-01-1973	PANE FORD DOORS INC., 10700 N.W. 36th Avenue, Miami, Florida 33167, U.S.A.	Extruded plastic folding door.
66.	138639	22-05-1973	SOCIETE NATIONALE DES POU- DRES ET EXPLOSIFS, 12 Quai Henri IV, 75181, Paris Cedex 04, France.	Apparatus for machining the inside of large cylindrical bodies.
67.	138654	18-04-1974	PARKS CRAMER (GREAT BRITAIN) LTD., Suthero Street, Oldham, Lancashire, England.	Method and apparatus for collecting filter waste from open-end spinning machines.
68.	138681	19-11-1973	CATERPILLAR TRACTOR CO., 100 N.E. Adams Street, Peoria, Illinois, U.S.A.	Flat track shoe with tapered end ribs.
69.	138717	30-01-1973	Do.	Pilot control valve.
70.	138725	20-09-1973	SPERRY RAND CORPORATION, Crooks & Maple Road, Troy, Michigan, 48084, U.S.A.	A hydraulic valve unit.
71.	138742	06-11-1972	FIERRO ESPONJA S. A., Aremida Los Angeles, al oriente, Mouterry N. L., Republic of Mexico.	Apparatus for reducing particulate ore.
72.	138746	12-02-1973	ONODA CEMENT CO. LTD., 6276, Oaza ohaoda-shi, Yamagushi-ken, Japan.	Apparatus for heating and calcining a powder and/or pulverized materials.
73.	138748	28-02-1974	SNAMPROGETTI S. P. A., 16 Corso Venezia, Milan, Italy.	A vehicle suitable for introduction into and movement along a pipeline and for carrying apparatus for performing construction maintenance or test function inside the pipeline.
74.	138763	11-09-1973	CHICAGO PNEUMATIC TOOL CO., 6 East 44th Street, New York, New York, U.S.A.	Stall torque air shut-off control for pneumatic nut runners.
75.	138775	12-10-1973	DEERE & CO., Moline, Illinois, U.S.A.	An agriculture machine having an engine enclosure and including means for filtering the engine cooling air.
76.	138777	03-06-1974	1. KUMANDUR SRINIVASIYENGAR RANGASAMI, Regional Engineering College, Rourkela 8, Orissa, India. 2. RASAVIHARI BURRA, Regional Engineering College, Rourkela 8, Orissa, India.	Double layered-braced domes.

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77.	138778	07-03-1974	MASCHINENFABRIK AVGSBERG-NURNBERG AKTIENG SELLSCHAFT, Katzwangerstrasse 101, 8500 Nurnbeig 2, F. R. GERMANY.	Piston assemblies.
78.	138802	03-03-1973	JACQUES HENRY MERCIER, 49 rue de Naples, Paris (Beme) France.	Pressure vessel.
79.	138809	13-03-1973	DR. C. OTTO & COMP, GmbH, Bochum, West Germany.	Hot-blast-stove.
80.	138820	14-01-1974	G. D. SOCIETA PER AZOINI, Via Pomponia 10, Bologna, Italy.	Device for co-ordinating and feeding separately objects, particularly sweet similar to a wrapping machine.
81.	138842	12-06-1973	EMHART (U. K.) LTD., Crompton Road, Wheatley, Doncaster, Yorkshire, England.	Valve block.
82.	138892	23-06-1973	SPERRY RAND CORPORATION, Crooks & Maple Roads, Troy, State of Michigan 48084, U.S.A.	Pumps and motors.
83.	138897	02-02-1973	SAINT-GOBAIN INDUSTRIES, 62, Boulevard Victor Hüge, Neuilly-Sur-Siene, France.	A composite constructional element for acoustic insolution and a product including the element.
84.	138898	29-03-1974	WERNER GLATT, 7859 Haltingen, West Germany.	Drying device for a rotary dragee-making kettle.
85.	138916	13-11-1973	RUDGWICK BRICKWORKS CO. LTD., Lynwick Street, Rudgwick Sussex, RH 12, 3DH, England.	Manufacture of bricks.
86.	138918	14-05-1974	SCHUBERT & SALZER MASCHINEN-FABRIK AKTIENGESSELLSCHAFT, 8070, Ingolstadt, Friedrich-Ebertstras-B 84, West Germany.	A spinning machine.
87.	138926	12-03-1973	JACQUES HENRY MERCIER, 49 rue de Naples, Paris (8 erne) France.	Pressure vessel.
88.	138953	13-06-1973	CANADIAN JESUIT MISSIONS, 833, Broadview Avenue, Toronto, Ontario, Canada, M4K 2P9.	Internal combustion engine using hydrogen as a fuel.
89.	138974	27-06-1973	PALITEX PROJECT COMPANY GmbH, Weeserweg 8, 415 Krefeld, West Germany.	Suction means especially for use on spinning twisting or winding machine.
90.	138992	24-05-1974	WESTERWALDER EISENWERK GERLAND KG., 5241, Wietefeld/Sieg, F. R. GERMANY.	Fluid-tight transport container for flowable goods.
91.	138996	07-03-1973	THE GOODYEAR TYRE & RUBBER CO., 1144 East Market Street, Akron, Ohio, U.S.A.	Tire building machine.
92.	139011	14-03-1973	USS ENGINEERS AND CONSULTANTS INC., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Idler roll mounting construction.
93.	139044	16-01-1974	VYZKUMNY USTAN BARLNASKY, Ulsti nad Orliá, CZECHOSLOVAKIA.	Apparatus for separating fibrers for ringless spinning.
94.	139070	23-04-1974	GUSTAV TCKES, Karlshader Strasse 1a 6462, Geluhausen/Hailer, West Germany.	A wall element preferably for use as a stressbearing outer wall part and its method of manufacture.
95.	139094	17-07-1974	GIRLING LTD., King's Road, Tyseley, England.	Disc brakes.
96.	139150	11-07-1973	MCNIEL CORPORATION, 96, Crosier Street, Akron, Sumit Country, Ohio 44311, U.S.A.	Apparatus for holding an uncured pneumatic tire.
97.	139189	18-05-1973	ISHIKAWAJIMA-HARIMA JUKOGYO KABYSHIKI KAISHA., 2-1, 2-chome, Ote-machi, chiyodaku, Tokyo-to, Japan.	Apparatus for burning materials of cement and the like.
98.	139269	27-03-1974	HOECHST AG., 6230 Frankfurt/Main 80, F.R. GERMANY.	Single injection syringe.

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99.	139272	18-04-1973	RCA CORPORATION, 30 Rockefeller Plaza, New York, New York 10020, U.S.A.	A color image retranslating system.
100.	139306	25-09-1974	KAUTEX WERKE REINOLD HAGEN GmbH, 5300 Boun-Halzar 1, F. R. GERMANY.	Apparatus for the production of hollow articles of thermoplastic materials by a blowing process.
101.	139350	02-03-1974	MESSIER-HISPAND S. A., 15 Avenue D'Elyan-75110, Paris, France.	Landing gear (under-carriage) and fuselage set with wheels drawn.
102.	139363	28-02-1974	RCA CORPORATION, 30 Rockefeller Plaza New York, New York, 10020 U.S.A.	Optical system.
103.	139370	09-08-1973	E. I. DU PONT DE NEMOURS & CO., Wilmington, Delaware, U.S.A.	Compartmental package and process for forming such package.
104.	139446	16-04-1974	EMHAT INDUSTRIES INCORPORATED, 426 Coit Highway, Farmington, Connecticut, 06032, U.S.A.	Glass feeder tube operating mechanism.
105.	139450	28-02-1973	C. A. NORGREN CO., Delaware Street, Littleton, Colorado 80120, U.S.A.	Coupling unit for fluid control components and an assembly of fluid control compounds.
106.	139486	03-04-1973	DRESSER INVESTMENTS N. V., Willemstad, Curacao, Netherlands, Antilles.	Variable venturi apparatus for mixing and modulating liquid fuel or intake air for an internal combustion engine.
107.	139488	17-04-1973	GIRLING LTD. King's Road, Teyseley, England.	Servo-boosters for vehicle brake systems.
108.	139517	28-02-1973	C. A. NORGREN CO., 5400 South Delaware Street, Littleton, Colorado. 80120 U.S.A.	A device of coupling two cylindrical elements as for example a bowl guard to a housing of a fluid control component and the like.
109.	139525	26-09-1973	PROFESSOR DR. ING. FRITZ LEONHARDT, DR. ING. WOLFHART ANDRA, BAV-ING, WILLI BAYER DIPL ING., WILHELM ZELLINGER AND DR. ING. JORG SCHLAICH, Lenzhalde 16, 7 Stuttgart 1, West Germany, all of German nationality excepting WILHELM ZELLINER who is an Austrian citizen.	Improvements in or relating to structures.
110.	139529	28-12-1973	TOYO ENGINEERING CORPORATION, 2-5, 3-chome, Kasumigaseki, Chiyoda, ku, Tokyo, Japan.	Apparatus for effecting catalytic gaseous reactions at elevated pressures.
111.	139539	10-08-1973	1. OLE BENDT RASMUSSEN, 14 Anemonevej Gentofte, Denmark. 2. BEGHIN-SAY 59239 Thumeries, France.	Net and method of producing same.
112.	139548	05-10-1974	PALITEX PROJECT-COMPANY GmbH, Weeserweg 8, 415, Krefeld, West Germany.	Anti-ballooning device for twisting machines.
113.	139556	24-01-1974	JOHNS MANVILLE CORPORATION, Greenwood Plaza, Den Var, Colorado, 80717, U.S.A.	Method and making a bell and of a heat deformable pipe.
114.	139562	11-01-1973	INTERNATIONAL BASIC ECONOMY Corporation, 1271, Avenue of the Americas, New York, U.S.A.	Method and apparatus for drying and a compacting a material flowing through a conduit.
115.	139592	29-10-1973	WERKZEUGMASCHINENFABRIK OERLIKON-BUHRLE AG., CH-8050 Zurich, Switzerland.	A wheel slide controller for braked four-axle vehicles particularly rail-bound vehicle.
116.	139602	04-06-1974	USS ENGINEERS AND CONSULTANTS INC., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Apparatus for introducing gas to hot metal in a bottom pour vessel.
117.	139605	14-10-1974	PALITEX PROJECT-COMPANY GmbH, Weeserweg 8, 415 Krefeld, West Germany.	A double twisting machine with a knotting device.
118.	139636	06-07-1973	CARDING SPECIALISTS (CANADA) LTD. Suite 1315, 44 King Street, West Toronto 1, Ontario, Canada.	Apparatus for use as a gas compressor or gas blower.
119.	139641	08-01-1974	G. D. SOCIETA PER AZOINO, Via Pomponia 10, Bologna, Italy.	High speed intermittent cycle machine for wrapping pieces of soap and other similar products.

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120.	139642	29-06-1973	UNION CARBIDE CORPORATION 270 Park Avenue, New York, State of New York 10017, U.S.A.	Apparatus for producing an effluent having a reduced "BOD" content.
121.	139654	19-12-1974	MIDREX CORPORATION, One NCNB Plaza, Charlotte, North Carolina 28280, U.S.A.	Apparatus for cooling a moving bed of solid gas permeable particles.
122.	139662	31-10-1974	CARDWELL WESTINGHOUSE CO., 332, South Michigan Avenue, Chi- cago, Illinois, 60604, U.S.A.	Rubber draft gear.
123.	139681	11-04-1973	SOCIETE NATIONALE DES POUD- RES ET EXPLOSIES, 12 Quai Henri IV, 75181, Paris Cedex 04 m, France.	Milling machine for the machining of parts of large dimensions in particularly of the blocks of solid propellants.
124.	139682	11-04-1973	Do.	Process and device for the machining of the internal duct of a block of solid propellant.
125.	139741	29-05-1974	SOPRETES SOCIETE FRANCAISE DI ETVADES THERMIQUES ET D' ENERGIE SOLAIRE, Arnilly, Loiret, France.	A power generating system comprising an engine actuated by the expansion of a liquifiable gaseous fluid.
126.	139747	8-09-1972	ALUMINIUM COMPANY OF AME- RICA, Aloca Building, Pittsburgh, Pen- sylvania, U.S.A.	Apparatus for effecting the desublimation of gaseous aluminium chloride to solid form.
127.	139761	27-12-1974	GUTI MACHINERY WORKS LTD., 8630 Ruti, Zurich, Switzerland.	Aband wheel drive arrangement of looper loom automatic lubricating means.
128.	139799	19-07-1973	ESTABLISSEMENT SALGAD, Vaduz, Liechtenstein.	Light mortar for finstabilised projectiles.
129.	139802	28-11-1973	SANDRA RAJNIKANT SHROFF, Excel Estate, Swami Vivekanand Road, Goregaon, Bombay, State of Mahara- shtra, India.	A collapsible liquid container.
130.	139805	04-03-1974	OUTOKUMPU OY, Outokumpu, Fin- land.	An intrauterine contraceptive device.
131.	139824	22-10-1973	CHICAGO PNEUMATIC CO., 6 East 44th Street, New York, New York 10017, U.S.A.	Nut crimping mechanism.
132.	139855	03-07-1974	BURROUGHS CORPORATION, Bur- roughs Place, Detroit, Michigan 48232, U.S.A.	Failsafe system for energizing the capstan motor of a magnetic tape transport system.
133.	139860	04-04-1973	WESTINGHOUSE ELECTRIC COR- PORATION, Pittsburgh, Pennsylvania, U.S.A.	Improved system for turbine speed con- trolling valve operation.
134.	139924	26-06-1973	SNAMPROGETTI S. P. A., 16 Corso Venezia, Milan, Italy.	Water desalination apparatus.
135.	139982	29-10-1974	HERCULES INCORPORATED, 910 Market Street, City of Wilmington, State of Delaware, U.S.A.	Thermal detonation energy imitable blas- ting caps, and detonation system.
136.	140011	26-10-1973	DR. CARL HANN GMBH, Kaiserswer- ther strasse, 270, D-4000 Dusseldorf, Federal Republic of Germany.	Method and apparatus for applying the free end portion of a withdrawal string to one end face of a roll of non-woven fabric on a blank for a tampon parti- cularly for female hygiene, and a tampon made by the aforementioned method and apparatus.
137.	140021	08-05-1973	GREAT LAKES CARBON CORPO- RATION, 299 Park Avenue, New York, State of New York, U.S.A.	Apparatus for collecting emissions dis- charged into atmosphere from high temperature chemical reactors.
138.	140060	30-09-1974	CATERPILLAR TRACTOR CO., 100 N. E. Adams Street, Peoria, Illinois, 61602, U.S.A.	Noise attenuating impact absorbing means for sprocket teeth and track.
139.	140061	10-10-1974	GEORG FISCHER AKTIENGESELL- SCHAFT, Schaffhausen, Switzerland.	A cast one piece annular rim member for a vehicle wheel.
140.	140084	21-05-1974	G. D. SOCIETA PER AZIONI, Via Pom- ponia 10, Bologna, Italy.	Apparatus for accumulating and supply- ing lengths of material in sheet from particularly cuttings or packet blanks and similar to cigarette packaging machines of the hinged lid type.



REGISTRATION OF ASSIGNMENTS, LICENCES, ETC.  
(PATENTS)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests :—

- 108679.— .. M/s. DRG (UK) Limited.  
120359.— .. M/s. Edcopro, Inc.  
139071.— .. Anindya Saha.  
143868.— .. M/s. American Hoechst Corporation.

PATENTS DEEMED TO BE ENDORSED WITH  
THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the Patents.

No.	Title of the invention
141504 (17-03-76)	Coal processing method and apparatus.
141736 (04-05-74)	Non-regenerative HF alkylation process.
141744 (16-07-75)	Process for producing a new polycyclic ether antibiotic.
141745 (29-10-75)	Manufacture of dinitriles from thiodinitriles.
141751 (05-11-73)	Calcination of high moisture content phosphate rock.
141780 (03-11-75)	Process for the preparation of cyanazo dyestuffs.

## RENEWAL FEES PAID

107414	107624	109526	109949	110137	110298	112586	112776
112845	114469	114681	114710	114874	115054	115256	115982
116106	118015	118121	118408	118572	118593	119617	119799
119930	119931	120052	120187	120352	120356	120357	120474
120475	120505	120511	120512	120696	120820	120979	123005
123006	123055	123454	123458	125305	125531	125655	125720
125990	126107	126163	126288	126538	128374	128684	128826
128873	128935	129064	130396	130634	130688	130842	130948
131046	132763	132846	132895	133048	133049	133319	133444
133572	134887	134991	135084	135096	135232	135246	135256
135257	135292	135296	135478	135534	135571	136571	137162
137232	137318	138368	138381	138533	138623	138925	139098
139272	139273	139736	139821	139823	139828	139846	139885
140386	140407	140525	140533	140534	140616	140787	140791
140820	141005	141133	141316	141322	141330	141379	141397
141547	141664	142001	142022	142112	142325	142380	142386
142436	142676	142741	143038	143051	143124	143204	143241
143297	143308	143331	143407	143423	143454	143481	143495
143541	143616	143659	143703	143743	143797	143831	143900
143961	144099	144147	144158	144200	144216	144237	144413
144541	144565	144613	144822	144959	144962	145422	145597
145749	145834	145891	145988	146002	146044	146072	146073
146075	146122	146131	146168	146210	146232	146264	146390
146402	146432	146445	146569	146570	146590	146631	146647
146745	146802	146810	146820	146858	146903	146913	146922
146972	147000	147080	147087	147090	147205	147324	147365
147386	147410	147500	147521	147567	147569	147676	147734
147744	147776	147874	147912	147918	147950	147951	147952
147954	147962	147998	148042	148051	148073	148146	148252
148368	148374	148511	148518	148540	148625		

## CANCELLATION OF PATENTS

104618	104626	104628	104630	104636	104654	104663	104673
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## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 124693 granted to Knorr-Bremse GmbH for an invention relating to "brake valve for railway trains".

The patent ceased on the 2nd January, 1981 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 13th February, 1982.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 27th May 1982 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 144197 granted to Council of Scientific & Industrial Research for an invention relating to "a process for treating industrial sludge containing hexavalent chromium from bichromate plants prior to its disposal".

The patent ceased on the 21st December, 1980 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 13th February, 1982.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 27th May 1982 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 147595 granted to Barry Lynn Bosshold for an invention relating to "envelope opener device".

The patent ceased on the 26th August, 1981 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part-III, Section 2 dated the 13th February, 1982.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32 in duplicate with the Controller of Patents, The Patent Office, 214, Acharya Jagadish Bose Road, Calcutta-700017 on or before the 27th May 1982 under Rule 69 of the Patents Rules, 1972. A written statement in triplicate setting out the nature of the Opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application for restoration of Patent No. 107299 dated the 3-10-1966 made by The Sigma Steel Industries (Regd.) on the 14th July 1980 and notified in the Gazette of India, Part-III, Section 2 dated the 28th February 1981 has been allowed and the said patent restored.

(5)

Notice is hereby given that an application for restoration of Patent No. 115338 dated the 8th April, 1968 made by Eli Lilly and Company on the 7th April, 1981 and notified in the Gazette of India, Part-III, Section 2 dated the 31st October, 1981 has been allowed and the said patent restored.

(6)

Notice is hereby given that an application for restoration of Patent No. 115511 dated the 18th April, 1968 made by Eli Lilly & Company on the 7th April, 1981 and notified in the Gazette of India, Part-III, Section 2 dated the 31st October, 1981 has been allowed and the said patent restored.

(7)

Notice is hereby given that an application for restoration of Patent No. 124818 dated the 18th April, 1968 made by Eli Lilly & Company on the 7th April, 1981 and notified in the Gazette of India, Part-III, Section 2 dated the 24th October, 1981 has been allowed and the said patent restored.

(8)

Notice is hereby given that an application for restoration of Patent No. 144687 dated the 1st April, 1977 made by Prem Chandra Luthar on the 25th March, 1981 and notified in the Gazette of India, Part-III, Section 2 dated the 4th July, 1981 has been allowed and the said patent restored.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 3. No. 150690. Kothari Bros. of Inside New Cutlery Market, Juma Masjid, Bombay-400002, Maharashtra, Indian Sole Proprietary Firm. "Container (Box)". April 20, 1981.

Class. 3. No. 150694. J. S. Products, Indian Proprietary Firm of 7346, Quasabpura, Near Masjid Chhappawali, Sadai Bazar, Delhi-110006. "Fountain". April 21, 1981.

Class. 3. No. 150724. Kalpana Industries, an Indian Partnership Firm of 405, Byculla Industrial Estate, Sussex Road, Near Victoria Gardens, Bombay-400027, Maharashtra. "Desk Calendar". May 4, 1981.

Class. 3. No. 150725. Kalpana Industries, an Indian Partnership Firm of 405, Byculla Industrial Estate, Sussex Road, Near Victoria Gardens, Bombay-400027, Maharashtra. "Telephone Index". May 4, 1981.

Class. 3. No. 150726. Kalpana Industries, an Indian Partnership Firm of 405, Byculla Industrial Estate, Sussex Road, Near Victoria Gardens, Bombay-400027, Maharashtra. "Pen stand cum memo folder". May 4, 1981.

Class. 3. No. 150727. Kalpana Industries, an Indian Partnership Firm of 405, Byculla Industrial Estate, Sussex Road, Near Victoria Gardens, Bombay-400027, Maharashtra. "Mini Pen Stand". May 4, 1981.

Class. 3. No. 150728. Kalpana Industries, an Indian Partnership Firm of 405, Byculla Industrial Estate, Sussex Road, Near Victoria Gardens, Bombay-400027, Maharashtra. "Pen Stand cum piggy bank". May 4, 1981.

Class. 3. No. 150770. R. Ajanta Arts of K-1/11, Model Town, Delhi-110009, India. "Stool". May 14, 1981.

Class. 3. No. 150785. Anand Enterprises of 248, Yusuf Meherally Road, 1st floor, Bombay-400003, Maharashtra, India. "A plastic container". May 16, 1981.

Class. 3. No. 150792. Ethio Plastics Pvt. Ltd. of 15-16, Baroda Co-op. Ind. Estate Ltd., Chhani Road, Baroda-390002, Gujarat, India. "Plastic Jerry Can". May 21, 1981.

Class. 3. No. 150804. Anwar Company Limited of 159, Griffith Avenue, Dublin 9, Republic of Ireland. "An electric plug". May 25, 1981.

Class. 3. No. 150812. Sharad Pandharinath Mote, 2, Goldfinch Peth, Solapur-413002, Maharashtra, India. "Flute". May 26, 1981.

Class. 3. No. 150826. Larsen & Toubro Limited, an Indian Company of L&T House, Ballard Estate, Bombay-400038, Maharashtra, India. "Busbar Grip". May 29, 1981.

Class. 3. No. 150830. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700071, West Bengal, India. "Flashlight". May 30, 1981.

Class. 3. No. 150825. Mohan Dattatray Karnik, Indian National of 26, Imiya Apartments, Agarkar Road, Dombivli (East), 421201, Maharashtra, India. "Magnetic Catcher". May 29, 1981.

Class. 3. No. 150867. Shako Plastic, Gujarat Industrial Compound, Tilak Nagar, Off Aarey Road, Goregaon (East), Bombay-400063, Maharashtra, Indian Proprietary firm. "Mirror". June 4, 1981.

Class. 3. No. 150947. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700071, West Bengal, India. "Flashlight 2". June 27, 1981.

Class. 3. No. 150952. Union Carbide India Limited, an Indian Company of 1, Middleton Street, Calcutta-700071, West Bengal, India. "Electric Torch Switch". June 29, 1981.

Class. 3. No. 150966. Orsons Electronic Industries Pvt. Ltd., an Indian Company of "Arcadia", Office No. 209/210, 2nd floor, Plot No. 195, Block-III, Backbay Reclamation, Nariman Point, Bombay-400021, Maharashtra, India. "A radio-cum-transistor". July 4, 1981.

Class. 3. No. 150967. Silver Containers Pvt. Ltd. of C-104, Hind Saurashtra Industrial Estate, Andheri-Kurla Road, Bombay-400059, Maharashtra, India. "A Water Bag". July 7, 1981.

Class. 3. No. 151119. Artex Industries of 15-A, Sitladevi Industrial Estate, Sitladevi Temple Road, West, Mahim, Bombay-400016, Maharashtra, Indian proprietary firm. "Shuttle-cock". August 25, 1981.

Class. 3. No. 151137. Laboratories Vifor (India) Pvt. Ltd. of 85, Dr. Annie Besant Road, Worli, Bombay-400018, Maharashtra, India. "Container". September 5, 1981.

Class. 4. No. 150472. Revon Cosmetics of Ajay Service Industrial Estate, Unit 421, 4th floor, Anjar Wadi Mazgaon, Bombay-400010, Maharashtra, Indian Proprietary firm. "Glass Bottle". February 26, 1981.

Class. 4. No. 150457. Kemco Chemicals of 48/B, Kulkaram Babu Street, Calcutta-700007, West Bengal, India, an Indian Partnership Firm. "Bottle". February 24, 1981.

Class. 4. No. 150511. Tian Khoo, a Malaysian citizen of 286, Jalan Pasar, Kupar, Kland, Selangor, West Malaysia. "Brick". Priority date September 23, 1980.

Class. 4. No. 150558. Fumol Chemicals India, a partnership firm of Crescent Buildings, 3rd floor, West Wing, 23, Purasawalkam High Road, Madras-600007, Tamil Nadu, India. "Bottle". March 18, 1981.

Class. 4. No. 150572. Bengal Fancy Products of 12, Bibi Bagan Lane, Calcutta-700015, West Bengal, Indian Proprietary Firm. "Mirror". March 21, 1981.

Class. 4. No. 150674. McDowell & Co. Ltd. of 3 Second line Beach, Madras-600001, Tamil Nadu, India. "Glass Bottle". April 16, 1981.

Class. 4. No. 150699. McDowell & Co. Ltd. of 3, Second Line Beach, Madras-600001, Tamil Nadu, India. "Glass Bottle". April 23, 1981.

Class. 4. No. 150697. McDowell & Co. Ltd. of 3, Second Line Beach, Madras-600001, Tamil Nadu, India. "Glass Bottle". April 23, 1981.

Class. 4. No. 150698. McDowell & Co. Ltd. of 3, Second Line Beach, Madras-600001, Tamil Nadu, India. "Glass Bottle". April 23, 1981.

Class. 4. No. 150786. The Mahalakshmi Glass Works Pvt. Ltd. of Dr. E. Moses Road, Jacob Circle, Bombay-400011, Maharashtra, India. "Bottle". May 16, 1981.

Class. 4. No. 150835. McDowell & Co. Ltd. of 3, Second Line Beach, Madras-600001, Tamil Nadu, India. "Bottle". June 1, 1981.

Class. 4. No. 150873. R&M Company, a proprietary firm of 4635 Ajmeri Gate, Delhi-110006, India. "Glass Tiles". June 8, 1981.

Class. 4. No. 151057. Fabella Laboratories of 118, Sarang Street, 2nd floor, Bombay-400003, Maharashtra, India, a proprietary firm. "Bottle". August 3, 1981.

Class. 4. No. 151163. M. G. Shahani & Co. (Delhi) Pvt. Ltd. of 34-B, Connaught Place, New Delhi-110001. "Bottle". September 19, 1981.

Class. 5. No. 150750. Dalmia Udyog, a proprietary firm of Dalmia Dairy Industries Limited of 11-ABC, Atma Ram House, 1, Tolstoy Marg, New Delhi-110001, India. "Metach Boxes". May 12, 1981.

Class. 8. No. 150732. Singh Fabrics, an Indian Proprietary Concern of 730-732, Ganesh Nagar No. 2, Shakar-pur, Delhi-110092, "Tapestry Cloth". May 7, 1981.

Class. 10. No. 150710. Vijay Electricals of Swastik Industrial Compound, Ram Baug, S. V. Road, Bombay-400064, Maharashtra, Indian Partnership Firm. "Footwear". May 1, 1981.

Class. 11. No. 150751. Zenith Processing Corporation, a partnership firm of 405, Sethi Bhavan Rajendra Places, Pusa Road, New Delhi-110066. "Underwear or Panties". May 12, 1981.

Class. 12. No. 151002. Hindustan Lever Limited of Hindustan Lever House, 165/166, Backbay Reclamation, Bombay-400020, Maharashtra, India. "Detergent bar". July 16, 1981.

Class. 13. No. 150668. Rubia Knitting Industries, Partnership Firm of 111, Business Centre, Relief Road, Patharknva, Ahmedabad-380001, Gujarat, India. "Gent's Brief made of textile piecegoods". April 13, 1981.

Class. 14. No. 150784. Spectomatic Pvt. Ltd. of Akash Deep, 4/5, Zakeria Bunder Road, Sewri, Bombay-400015, Maharashtra, India. "Textile Goods". May 16, 1981.

#### EXTENSION OF COPYRIGHT FOR THE SECOND PERIOD OF FIVE YEARS

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#### EXTENSION OF COPYRIGHT FOR THE THIRD PERIOD OF FIVE YEARS

Nos. 150041, 150042, 150043, 150044, 150045, 150046, 150047, 150048, 150049, 150050, 150051, 150052, 150240, 150241, 150242, 150243, 150244, 150245, 150246, 150247, 150248, 150249, 150250.

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DR S VEDARAMAN

Controller General of Patents, Designs  
and Trade Marks

